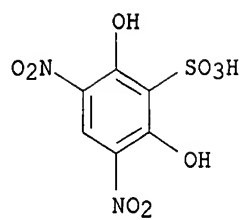


10/21/03

ACCESSION NUMBER: 2000:773948 CAPLUS
 DOCUMENT NUMBER: 133:335633
 TITLE: Production of 4,6-diaminoresorcinol
 INVENTOR(S): Kumamoto, Yukihiro; Kusumoto, Masahiko; Itou, Hisato;
 Mizuta, Hideki; Takaoka, Masazumi
 PATENT ASSIGNEE(S): Mitsui Chemicals, Inc., Japan
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1048644	A1	20001102	EP 2000-303678	20000502
EP 1048644	B1	20030423		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000319231	A2	20001121	JP 1999-123328	19990430
JP 3398338	B2	20030421		
JP 2000344733	A2	20001212	JP 1999-158850	19990607
JP 3398339	B2	20030421		
JP 2001011025	A2	20010116	JP 1999-181093	19990628
JP 3398340	B2	20030421		
JP 2001039935	A2	20010213	JP 1999-213013	19990728
JP 3398342	B2	20030421		
JP 2001114748	A2	20010424	JP 1999-289055	19991012
JP 2001122843	A2	20010508	JP 1999-299465	19991021
JP 3398347	B2	20030421		
JP 2001139685	A2	20010522	JP 1999-327647	19991118
JP 3380502	B2	20030224		
US 6359180	B1	20020319	US 2000-556814	20000421
CN 1276369	A	20001213	CN 2000-117956	20000430
US 2002107415	A1	20020808	US 2002-58415	20020130
PRIORITY APPLN. INFO.:				
			JP 1999-123328	A 19990430
			JP 1999-158850	A 19990607
			JP 1999-181093	A 19990628
			JP 1999-213013	A 19990728
			JP 1999-289055	A 19991012
			JP 1999-299465	A 19991021
			JP 1999-327647	A 19991118
			US 2000-556814	A3 20000421
AB	The present invention relates to a novel prodn. method of 4,6-diaminoresorcinol (I), and to 2-sulfo-4,6-dinitroresorcinol(II) as its intermediate and salts thereof without involving the formation of a halogen-contg. compd. I is obtained by sulfonating resorcinol to provide 2,4,6-trisulforesorcinol, nitrating this compd. to yield II, hydrolyzing II to give 4,6-dinitroresorcinol, and finally reducing the dinitro compd. to obtain I, a monomer in the prodn. of poly(benzobisoxazoles).			
IT	303963-29-3P, 4,6-Dinitro-2-sulforesorcinol RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (intermediate; in prodn. of diaminoresorcinol from resorcinol)			
RN	303963-29-3 CAPLUS			
CN	Benzenesulfonic acid, 2,6-dihydroxy-3,5-dinitro- (9CI) (CA INDEX NAME)			



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

>

L1

$$\Rightarrow id$$

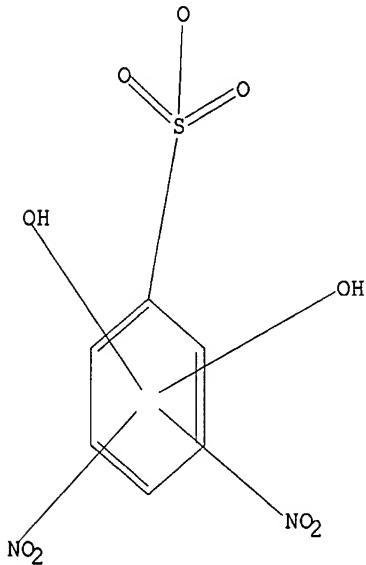
ID IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>):

$$\Rightarrow d$$

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

$\Rightarrow s_{11}$

SAMPLE SEARCH INITIATED 09:27:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 279 TO ITERATE

100.0% PROCESSED 279 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 4578 TO 6582

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s ll full

FULL SEARCH INITIATED 09:27:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4804 TO ITERATE

100.0% PROCESSED 4804 ITERATIONS

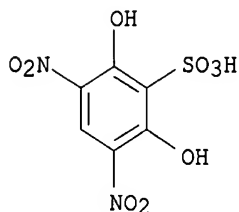
1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> d scan

L3 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Benzenesulfonic acid, 2,6-dihydroxy-3,5-dinitro- (9CI)
MF C6 H4 N2 O9 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
148.15	150.36

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:28:08 ON 21 OCT 2003
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 21 Oct 2003 VOL 139 ISS 17
FILE LAST UPDATED: 20 Oct 2003 (20031020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

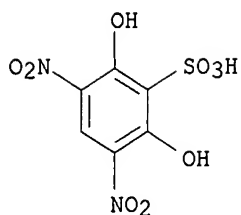
=> s 13

L4 1 L3

=> d ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2000:773948 CAPLUS
 DOCUMENT NUMBER: 133:335633
 TITLE: Production of 4,6-diaminoresorcinol
 INVENTOR(S): Kumamoto, Yukihiro; Kusumoto, Masahiko; Itou, Hisato;
 Mizuta, Hideki; Takaoka, Masazumi
 PATENT ASSIGNEE(S): Mitsui Chemicals, Inc., Japan
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
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 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1048644	B1	20030423		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000319231	A2	20001121	JP 1999-123328	19990430
JP 3398338	B2	20030421		
JP 2000344733	A2	20001212	JP 1999-158850	19990607
JP 3398339	B2	20030421		
JP 2001011025	A2	20010116	JP 1999-181093	19990628
JP 3398340	B2	20030421		
JP 2001039935	A2	20010213	JP 1999-213013	19990728
JP 3398342	B2	20030421		
JP 2001114748	A2	20010424	JP 1999-289055	19991012
JP 2001122843	A2	20010508	JP 1999-299465	19991021
JP 3398347	B2	20030421		
JP 2001139685	A2	20010522	JP 1999-327647	19991118
JP 3380502	B2	20030224		
US 6359180	B1	20020319	US 2000-556814	20000421
CN 1276369	A	20001213	CN 2000-117956	20000430
US 2002107415	A1	20020808	US 2002-58415	20020130
PRIORITY APPLN. INFO.:			JP 1999-123328	A 19990430
			JP 1999-158850	A 19990607
			JP 1999-181093	A 19990628
			JP 1999-213013	A 19990728
			JP 1999-289055	A 19991012
			JP 1999-299465	A 19991021
			JP 1999-327647	A 19991118
			US 2000-556814	A3 20000421
AB	The present invention relates to a novel prodn. method of 4,6-diaminoresorcinol (I), and to 2-sulfo-4,6-dinitroresorcinol(II) as its intermediate and salts thereof without involving the formation of a halogen-contg. compd. I is obtained by sulfonating resorcinol to provide 2,4,6-trisulforesorcinol, nitrating this compd. to yield II, hydrolyzing II to give 4,6-dinitroresorcinol, and finally reducing the dinitro compd. to obtain I, a monomer in the prodn. of poly(benzobisoxazoles).			
IT	303963-29-3P, 4,6-Dinitro-2-sulforesorcinol RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (intermediate; in prodn. of diaminoresorcinol from resorcinol)			
RN	303963-29-3 CAPLUS			
CN	Benzenesulfonic acid, 2,6-dihydroxy-3,5-dinitro- (9CI) (CA INDEX NAME)			



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file beilstein
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.37	155.73

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-0.65

CA SUBSCRIBER PRICE

FILE 'BEILSTEIN' ENTERED AT 09:29:25 ON 21 OCT 2003
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FILE RELOADED ON OCTOBER 20, 2002
FILE LAST UPDATED ON OCTOBER 6, 2003

FILE COVERS 1771 TO 2003.
*** FILE CONTAINS 8,773,291 SUBSTANCES ***

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.
Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. *
* FOR PRICE INFORMATION SEE HELP COST *

=> d his

(FILE 'HOME' ENTERED AT 09:24:33 ON 21 OCT 2003)

FILE 'REGISTRY' ENTERED AT 09:24:43 ON 21 OCT 2003

FILE 'REGISTRY' ENTERED AT 09:27:36 ON 21 OCT 2003

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 09:28:08 ON 21 OCT 2003

L4 1 S L3

FILE 'BEILSTEIN' ENTERED AT 09:29:25 ON 21 OCT 2003

=> s l1 full

FULL SEARCH INITIATED 09:29:34 FILE 'BEILSTEIN'

FULL SCREEN SEARCH COMPLETED - 1755 TO ITERATE

100.0% PROCESSED 1755 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.06

L5 1 SEA SSS FUL L1

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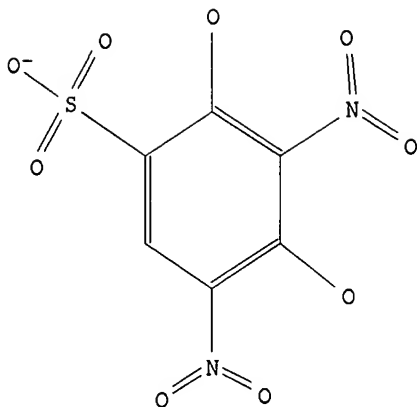
L5 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN):	4080270
Chemical Name (CN):	2,4-Dinitroresorcin-6-sulfonsaeure-Natriumsalz
Lin. Struct. Formula (LSF):	C6H3N2O9S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C6 H3 N2 O9 S , Na
Molecular Formula (MF):	C6 H3 N2 O9 S . Na
Molecular Weight (MW):	279.16, 22.99
Fragment BRN (FBRN):	4006964, 3587169
Lawson Number (LN):	13895
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3670292
Tautomer ID (TAUTID):	3922996
Beilstein Citation (BSO):	5-11
Entry Date (DED):	1991/03/19
Update Date (DUPD):	1991/04/09

CM 1

FBRN 4006964

FMF C6 H3 N2 O9 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
DE	Dissociation Exponent	1
UVS	UV and Visible Spectrum	1

=> d frxpro

L5 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

=> d bso

L5 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Citation (BSO): 5-11

=> d 5-11

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.16	172.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.65

FILE 'REGISTRY' ENTERED AT 09:33:41 ON 21 OCT 2003
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 OCT 2003 HIGHEST RN 607332-91-2
DICTIONARY FILE UPDATES: 20 OCT 2003 HIGHEST RN 607332-91-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 4 6-diemainoresorc
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5984303 6
0 DIEMAINORESORCIN
L6 0 4 6-DIEMAINORESORCIN
(4(W)6(W)DIEMAINORESORCIN)

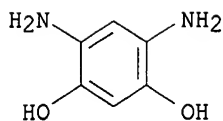
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73 DIAMINORESORCIN
L7 69 4 6-DIAMINORESORCIN
(4(W)6(W)DIAMINORESORCIN)

=> d scan

L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Undecanedioic acid, polymer with 4,6-diamino-1,3-benzenediol
dihydrochloride (9CI)
MF (C11 H20 O4 . C6 H8 N2 O2 . 2 Cl H)x
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1



●2 HCl

CM 2

HO₂C-(CH₂)₉-CO₂H

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 17 and sulfonic acid

262985 SULFONIC

6126181 ACID

8396 ACIDS

6132419 ACID

(ACID OR ACIDS)

262768 SULFONIC ACID

(SULFONIC(W)ACID)

L8

1 L7 AND SULFONIC ACID

=> d

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

RN 426255-56-3 REGISTRY

CN Poly[benzo[1,2-d:5,4-d']bisoxazole-2,6-diyl(sulfo-1,4-phenylene) sodium salt] (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **4,6-Diaminoresorcinol-2,5-dicarboxybenzenesulfonic acid monosodium salt copolymer polybenzoxazole sru**

MF (C14 H6 N2 O5 S)n . Na

AF (C14 H6 N2 O5 S . Na)n

CI IDS, PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS

****RELATED POLYMERS AVAILABLE WITH POLYLINK****

***** STRUCTURE DIAGRAM IS NOT AVAILABLE *****

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

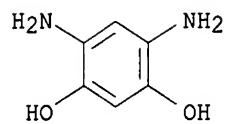
=> d scan 17

L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1,4-Benzenedicarbonyl dichloride, polymer with 4,6-diamino-1,3-benzenediol dihydrochloride, hydrazine sulfate (1:1) and 4,4'-oxybis[benzoyl chloride], block (9CI)

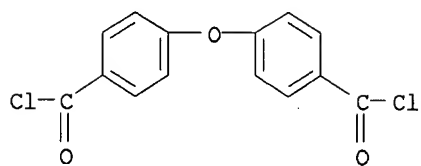
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 CI PMS

CM 1

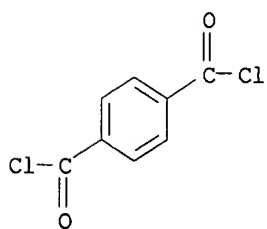


●2 HCl

CM 2

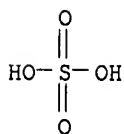


CM 3



CM 4

CM 5



CM 6

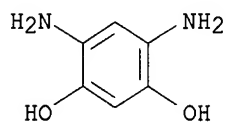
H₂N-NH₂

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Dodecanedioic acid, polymer with 4,6-diamino-1,3-benzenediol
dihydrochloride (9CI)
MF (C12 H22 O4 . C6 H8 N2 O2 . 2 Cl H)x
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1



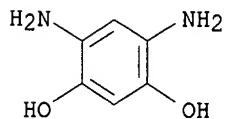
●2 HCl

CM 2

HO₂C-(CH₂)₁₀-CO₂H

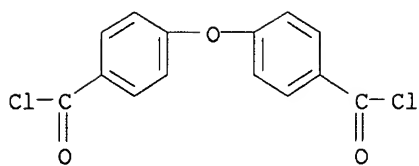
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 1,3-Benzenedicarbonyl dichloride, polymer with 1,4-benzenedicarbonyl
dichloride, 4,6-diamino-1,3-benzenediol dihydrochloride and
4,4'-oxybis[benzoyl chloride], block (9CI)
MF (C14 H8 Cl2 O3 . C8 H4 Cl2 O2 . C8 H4 Cl2 O2 . C6 H8 N2 O2 . 2 Cl H)x
CI PMS

CM 1

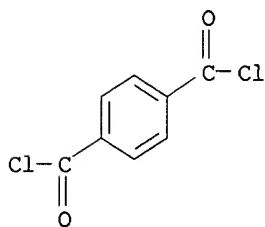


●2 HCl

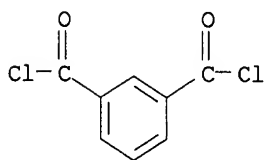
CM 2



CM 3



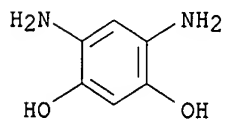
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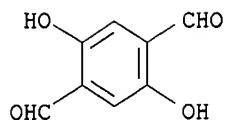
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1,4-Benzenedicarboxaldehyde, 2,5-dihydroxy-, polymer with
 4,6-diamino-1,3-benzenediol (9CI)
 MF (C8 H6 O4 . C6 H8 N2 O2)x
 CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

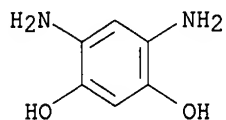
CM 1



CM 2



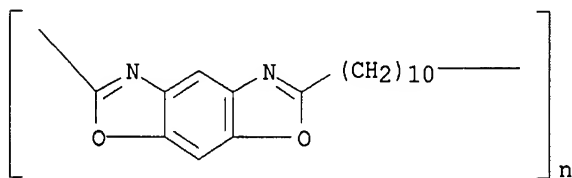
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1,3-Benzenediol, 4,6-diamino-, dipotassium salt (9CI)
 MF C6 H8 N2 O2 . 2 K



● 2 K

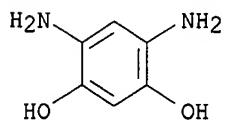
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Poly(benzo[1,2-d:5,4-d']bisoxazole-2,6-diyl-1,10-decanediyl) (9CI)
 MF (C18 H22 N2 O2)n
 CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK



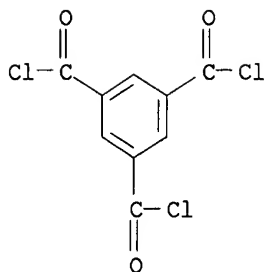
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Benzoic acid, 3-amino-4-hydroxy-, hydrochloride, polymer with
 1,4-benzenedicarbonyl dichloride, 1,3,5-benzenetricarbonyl trichloride and
 4,6-diamino-1,3-benzenediol dihydrochloride, block (9CI)
 MF (C9 H3 Cl3 O3 . C8 H4 Cl2 O2 . C7 H7 N O3 . C6 H8 N2 O2 . 3 Cl H)x
 CI PMS

CM 1

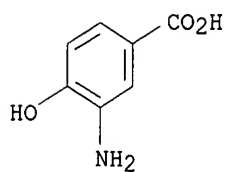


● 2 HCl

CM 2

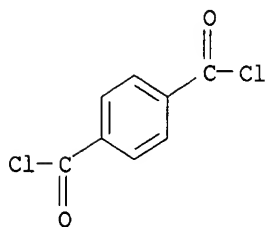


CM 3



● HCl

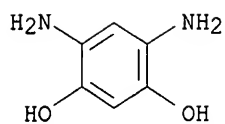
CM 4



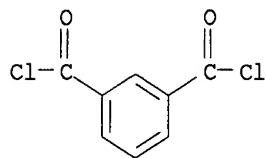
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Isophthaloyl chloride, polymer with 4,6-diaminoresorcinol (8CI)
MF (C8 H4 Cl2 O2 . C6 H8 N2 O2)x
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1



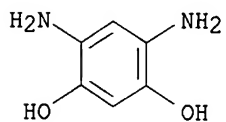
CM 2



L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 2,6-Naphthalenedicarboxylic acid, polymer with 4,6-diamino-1,3-benzenediol dihydrochloride (9CI)
 MF (C12 H8 O4 . C6 H8 N2 O2 . 2 Cl H)x
 CI PMS

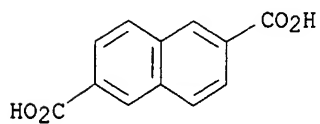
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1



● 2 HCl

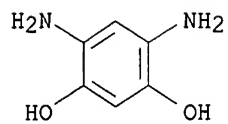
CM 2



L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Tridecanedioic acid, polymer with 4,6-diamino-1,3-benzenediol dihydrochloride (9CI)
 MF (C13 H24 O4 . C6 H8 N2 O2 . 2 Cl H)x
 CI PMS

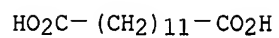
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1



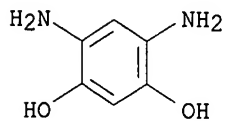
●2 HCl

CM 2



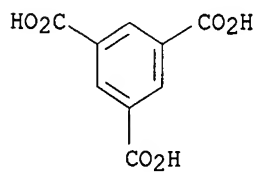
L7 69 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 1,3,5-Benzenetricarboxylic acid, polymer with 1,4-benzenedicarbonyl
dichloride and 4,6-diamino-1,3-benzenediol dihydrochloride (9CI)
MF (C9 H6 O6 . C8 H4 Cl2 O2 . C6 H8 N2 O2 . 2 Cl H)x
CI PMS

CM 1

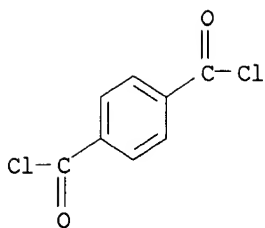


●2 HCl

CM 2



CM 3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 17 not pms/ci

984197 PMS/CI

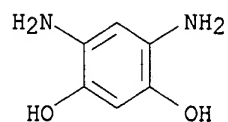
L9 3 L7 NOT PMS/CI

=> d scan

L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1,3-Benzenediol, 4,6-diamino-, dipotassium salt (9CI)

MF C6 H8 N2 O2 . 2 K



● 2 K

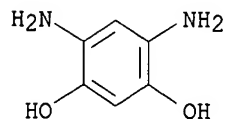
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1,3-Benzenediol, 4,6-diamino- (9CI)

MF C6 H8 N2 O2

CI COM



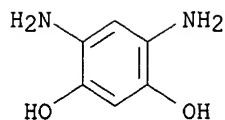
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1,3-Benzenediol, 4,6-diamino-, dihydrochloride (9CI)

MF C6 H8 N2 O2 . 2 Cl H

CI COM



●2 HCl

ALL ANSWERS HAVE BEEN SCANNED

=> s resorcin/cn
L10 1 RESORCIN/CN

=> d

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

RN 108-46-3 REGISTRY

CN 1,3-Benzenediol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Resorcinol (8CI)

OTHER NAMES:

CN 1,3-Dihydroxybenzene

CN 3-Hydroxyphenol

CN C.I. 76505

CN C.I. Developer 4

CN C.I. Oxidation Base 31

CN Developer O

CN Developer R

CN Developer RS

CN Durafur Developer G

CN Fouramine RS

CN Fourrine 79

CN Fourrine EW

CN m-Benzenediol

CN m-Dihydroxybenzene

CN m-Hydroquinone

CN m-Hydroxyphenol

CN m-Hydroxyphenol

CN m-Phenylenediol

CN Nako TGG

CN NSC 1571

CN Pelagol Grey RS

CN Pelagol RS

CN Redimix 401RAP60

CN Reso

CN **Resorcin**

CN Rodol RS

CN RS 11H

CN RS 11L

FS 3D CONCORD

MF C6 H6 O2

CI COM

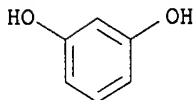
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,

IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA,
PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN,
USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13673 REFERENCES IN FILE CA (1907 TO DATE)

1086 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

13695 REFERENCES IN FILE CAPLUS (1907 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s sulfonate and resorcin

117163 SULFONATE

128 SULFONATES

117163 SULFONATE

(SULFONATE OR SULFONATES)

3708 RESORCIN

L11 61 SULFONATE AND RESORCIN

=> d scan

L11 61 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

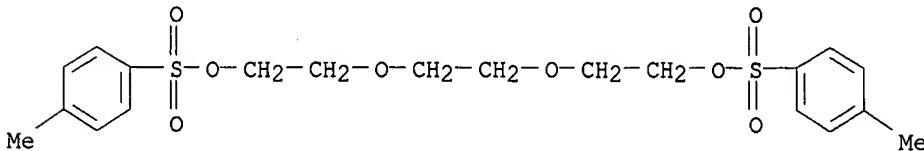
IN 1,3-Benzenediol, polymer with 1,2-ethanediylbis(oxy-2,1-ethanediyl)
bis(4-methylbenzenesulfonate) (9CI)

MF (C20 H26 O8 S2 . C6 H6 O2)x

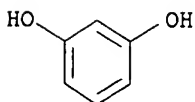
CI PMS, COM

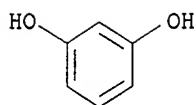
RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1



CM 2





HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l11 and 1/nc

53808309 1/NC

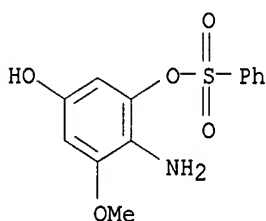
L12 45 L11 AND 1/NC

=> d scan

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Resorcinol, 4-amino-5-methoxy-, 3-benzenesulfonate (8CI)

MF C13 H13 N O5 S



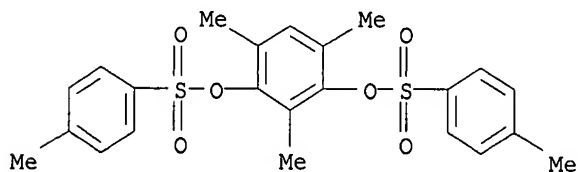
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Resorcinol, 2,4,6-trimethyl-, di-p-toluenesulfonate (8CI)

MF C23 H24 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

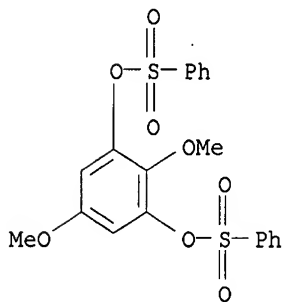
IN Formaldehyde, reaction products with ammonia and resorcinol,
methanesulfonates (salts)

MF Unspecified

CI MAN, GRS

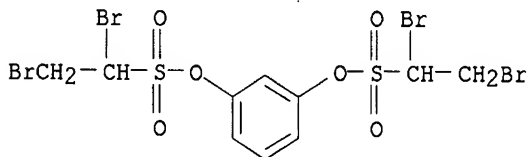
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Resorcinol, 2,5-dimethoxy-, dibenzenesulfonate (8CI)
MF C20 H18 O8 S2



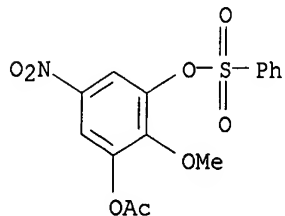
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Ethanesulfonic acid, 1,2-dibromo-, m-phenylene ester (7CI, 8CI)
MF C10 H10 Br4 O6 S2



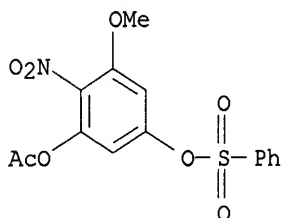
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Resorcinol, 2-methoxy-5-nitro-, 1-acetate benzenesulfonate (ester)
(8CI)
MF C15 H13 N O8 S



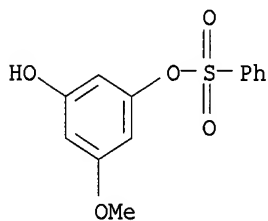
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Resorcinol, 5-methoxy-4-nitro-, 3-acetate 1-benzenesulfonate (8CI)
MF C15 H13 N O8 S



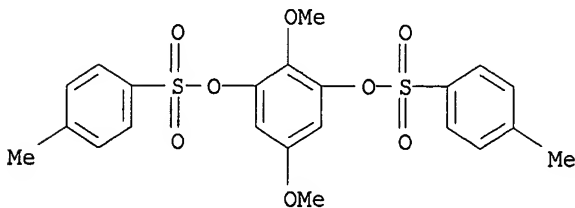
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 1,3-Benzenediol, 5-methoxy-, monobenzenesulfonate (9CI)
MF C13 H12 O5 S



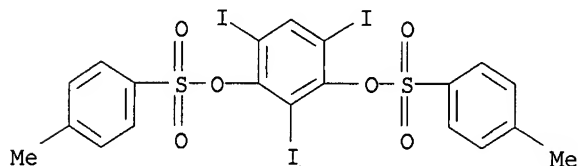
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Resorcinol, 2,5-dimethoxy-, di-p-toluenesulfonate (8CI)
MF C22 H22 O8 S2



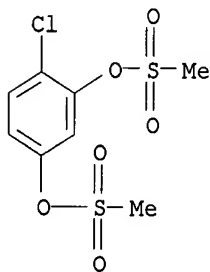
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Resorcinol, 2,4,6-triiodo-, di-p-toluenesulfonate (8CI)
MF C20 H15 I3 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 45 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Resorcinol, 4-chloro-, dimethanesulfonate (7CI)
MF C8 H9 Cl O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

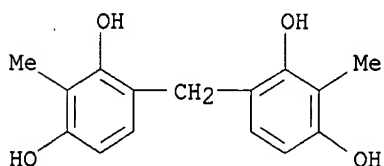
=> s sulfonic acid and resorcin
262985 SULFONIC
6126181 ACID
8396 ACIDS
6132419 ACID
(ACID OR ACIDS)
262768 SULFONIC ACID
(SULFONIC(W)ACID)
3708 RESORCIN
L13 104 SULFONIC ACID AND RESORCIN

=> s l13 and 1/nc
53808309 1/NC
L14 33 L13 AND 1/NC

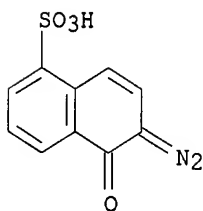
=> d scan

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 1-Naphthalenesulfonic acid, 6-diazo-5,6-dihydro-5-oxo-, diester with
4,4'-methylenebis[2-methyl-1,3-benzenediol] (9CI)
MF C35 H24 N4 O10 S2
CI IDS

CM 1

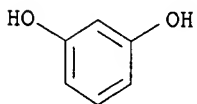


CM 2



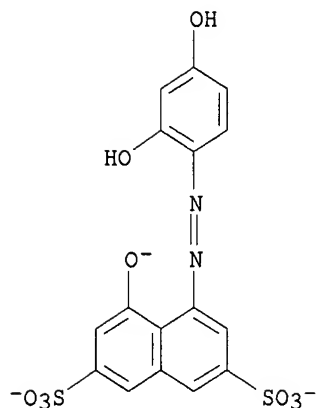
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Benzenesulfonic acid, 2,4(2,6 or 3,5)-dihydroxy- (9CI)
MF C6 H6 O5 S
CI IDS, COM

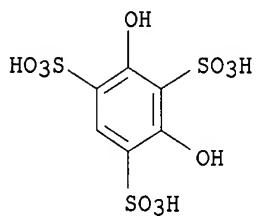


D1-SO3H

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2,7-Naphthalenedisulfonic acid, 4-[(2,4-dihydroxyphenyl)azo]-5-hydroxy-, ion(3-) (9CI)
MF C16 H9 N2 O9 S2



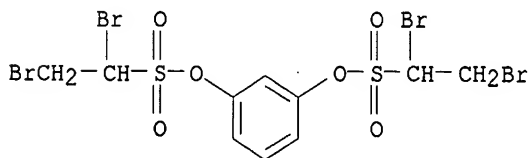
L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1,3,5-Benzenetrisulfonic acid, 2,4-dihydroxy- (8CI, 9CI)
 MF C6 H6 O11 S3
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

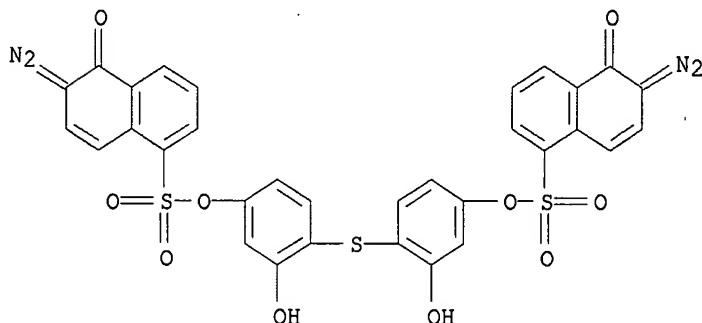
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Ethanesulfonic acid, 1,2-dibromo-, m-phenylene ester (7CI, 8CI)
 MF C10 H10 Br4 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1-Naphthalenesulfonic acid, 6-diazo-5,6-dihydro-5-oxo-,
 thiobis(3-hydroxy-p-phenylene) ester (8CI)
 MF C32 H18 N4 O10 S3



L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Iron, complexes with diazotized 4-aminobenzenesulfonamide, diazotized
 3-aminobenzenesulfonic acid, diazotized 3-amino-4-
 hydroxybenzenesulfonamide, diazotized 3-amino-4-hydroxy-N-
 phenylbenzenesulfonamide, diazotized 5-amino-2-
 (phenylamino)benzenesulfonic acid and resorcinol, sodium salts
 MF Unspecified
 CI MAN, GRS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

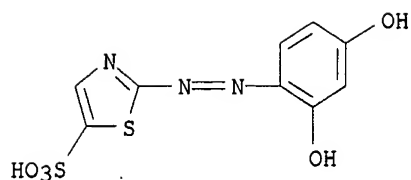
L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Copper, diazotized 3-amino-4-methoxybenzenesulfonic acid-diazotized
 4-nitro-1,3-benzenediamine-resorcinol coupling products ammonium sodium
 complexes
 MF Unspecified
 CI MAN, GRS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Copper, diazotized 4-amino-3-hydroxy-7-nitro-1-naphthalenesulfonic
 acid-diazotized o-toluidine-resorcinol coupling products complexes
 MF Unspecified
 CI MAN, GRS

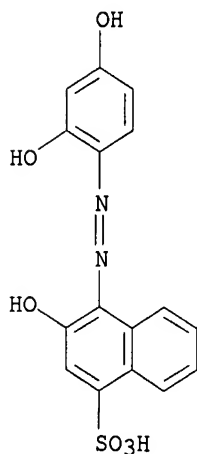
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 5-Thiazolesulfonic acid, 2-[(2,4-dihydroxyphenyl)azo]- (8CI, 9CI)
 MF C9 H7 N3 O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

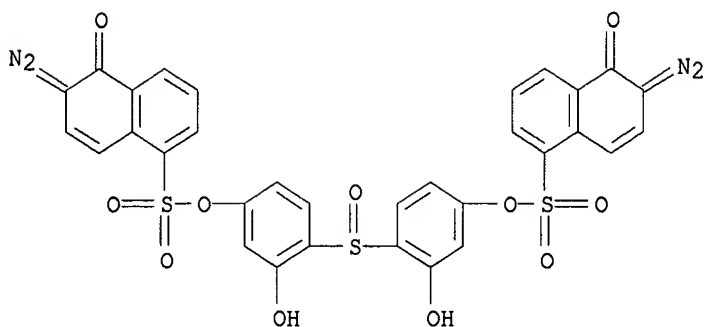
L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1-Naphthalenesulfonic acid, 4-[(2,4-dihydroxyphenyl)azo]-3-hydroxy-
 (7CI, 8CI, 9CI)
 MF C16 H12 N2 O6 S
 CI COM



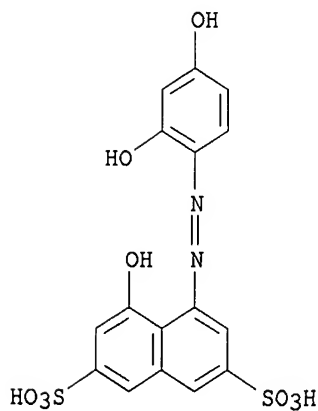
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1-Naphthalenesulfonic acid, 6-diazo-5,6-dihydro-5-oxo-, 1,1'-diester
 with 4,4'-sulfinyldiresorcinol (7CI, 8CI)
 MF C32 H18 N4 O11 S3



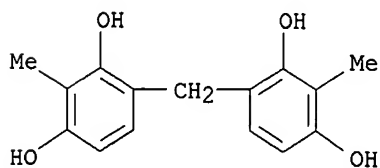
L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 2,7-Naphthalenedisulfonic acid, 4-[(2,4-dihydroxyphenyl)azo]-5-hydroxy- (7CI, 8CI, 9CI)
 MF C16 H12 N2 O9 S2
 CI COM

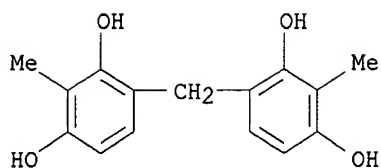


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

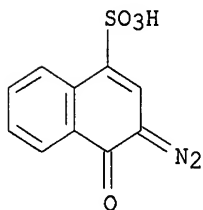
L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1-Naphthalenesulfonic acid, 3-diazo-3,4-dihydro-4-oxo-, diester with 4,4'-methylenebis[2-methyl-1,3-benzenediol] (9CI)
 MF C35 H24 N4 O10 S2
 CI IDS

CM 1





CM 2



L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Chromium, diazotized 2-amino-4,6-dinitrophenol-diazotized 6(or
 7)-amino-4-hydroxy-2-naphthalenesulfonic acid-formaldehyde-resorcinol
 reaction product coupling products complexes
 MF Unspecified
 CI MAN, GRS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L14 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 2,7-Naphthalenedisulfonic acid, 4-[(2,4-dihydroxyphenyl)azo]-5-
 hydroxy-, ion(4-) (9CI)
 MF C16 H8 N2 O9 S2

